

Soil Erosion and Sediment Control Plan for Operable Unit 8 Pilot Study, American Cyanamid Superfund Site

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Russell Downey/Pfizer Inc.
Vince D'Aco/Quantum Management

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DATE: July 10, 2013

Introduction

CH2M HILL has prepared this Soil Erosion and Sediment Control Plan (SESC) for Wyeth Holdings Corporation (WHC), on behalf of Pfizer, Inc. (Pfizer) as part of the pilot study proposed at the American Cyanamid Superfund Site in Bridgewater Township, New Jersey (Site). The pilot study will evaluate the feasibility and efficacy of treating materials contained within Impoundment 2 under Operable Unit 8 (OU 8), as part of the Focused Feasibility Study (FFS) process outlined in Section 4.1.3 of the *Focused Feasibility Study Work Plan* (CH2M HILL, 2012a).

The SESC has been prepared in accordance with the Statement of Work for developing an OU 8 FFS under the March 18, 2013, *Administrative Settlement Agreement and Order of Consent for Remedial Design, Operable Unit 4 and Focused Feasibility Study, Operable Unit 8* (United States Environmental Protection Agency [USEPA] 2013). This document specifies the soil erosion and sediment control measures to be implemented in accordance with local, state and federal requirements. Soil disturbance is anticipated to result from activities associated with the pilot test and is regulated in Bridgewater Township under Article XXXVI.

The Site is a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site. CERCLA sites are exempted by law from the requirement to obtain Federal, State, or local permits related to any activities conducted completely onsite. Although formal permits are not required, actions on the site must meet the substantive requirements of federal, state, and local regulations. Therefore, to demonstrate that the substantive requirements for SESC are met, this soil erosion and sediment control plan was prepared in accordance with applicable requirements, for soil disturbances of more than 5,000 square feet. SESC plans are typically reviewed, approved, and certified by the Somerset-Union Soil Conservation District.

Documents Included with this Design Package

- Soil Erosion and Sediment Control Plan – Design Drawings (Attachment 1)
- Application for Plan Certification to Somerset-Union Soil Conservation District (Attachment 2)

Potential Soil Disturbances

Two areas of potential soil disturbance are identified on the attached design drawings.

- 100 ft by 100 ft equipment laydown area
- Construction entrance ramp

The total area of land expected to be disturbed is approximately 0.28 acres (Attachment 1). Soil erosion and sediment control measures will be implemented during initial site preparation and will be regularly inspected and maintained throughout the duration of the pilot study.

Soil Erosion and Sediment Control Features

Soil erosion and sediment control features are designed in conformance with *Standards for Soil Erosion and Sediment Control in New Jersey, 1999* and are depicted on the attached design drawings. Silt fences are proposed in 2 segments:

- Along the north side of the 100 ft by 100 ft equipment laydown area
- Along the east side of the equipment laydown area

Construction details for the silt fence are featured as well as details for the preparation and construction of the laydown area and construction entrance.

Attachments

Attachment 1 Soil Erosion and Sediment Control Plan – Design Drawings

Attachment 2 Application for Plan Certification to Somerset-Union Soil Conservation District

References

CH2M HILL. 2013a. Draft Report 100 Percent Design of Pilot Study for Operable Unit 8. June 18.

New Jersey Department of Environmental Protection (NJDEP). 1999. *Soil Erosion and Sediment Control Standards*. April.

U.S. Environmental Protection Agency (USEPA). 2013. *Administrative Settlement Agreement and Order on Consent for Remedial Design, Operable Unit 4 and Focused Feasibility Study, Operable Unit 8*. March.

Attachment 1

IMPOUNDMENT #2 PILOT-SCALE DEMONSTRATION WYETH HOLDINGS CORPORATION AMERICAN CYANAMID SUPERFUND SITE BRIDGEWATER, NJ

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	TITLE
GENERAL		
1	G-0001	COVER SHEET
2	G-0002	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
3	G-0003	SITE SOIL/SEDIMENT EROSION CONTROL NOTES
CIVIL		
4	C-2001	SITE GENERAL ARRANGEMENT
*5	C-2002	MOORING LINE LAYOUT
*6	C-2003	WORK ZONE AND EXCLUSION ZONE LOCATIONS
*7	C-2004	PERIMETER AIR MONITORING LOCATIONS
8	C-2005	PRELIMINARY PILOT CAISSON AND FLEXIFLOAT CONFIGURATION
9	C-2101	SITE SOIL/SEDIMENT EROSION CONTROL PLAN
*10	C-2801	CROSS-FLOW PIPE UTILITY PLAN AND SECTION
11	C-3001	SECTIONS
12	C-5001	CONTAINMENT PAD AREA/DETAILS FOR ISS MATERIAL SECONDARY S/S OPERATIONS
13	C-5002	FLEXIFLOAT DRILL BARGE ASSEMBLY
14	C-5003	FLEXIFLOAT DRILL BARGE ASSEMBLY
15	C-5004	EQUIPMENT BENCH, GABION BASKET, AND SAFETY RAIL DETAILS
16	C-5005	PRE-CAST DROP-BOARD CULVERT
17	C-5101	SITE SOIL/SEDIMENT EROSION CONTROL DETAILS
STRUCTURAL		
18	S-2001	OVERALL CAISSON PLAN
19	S-2002	CAISSON SHROUD COVER - ISS PLAN AND ISOMETRIC VIEW
20	S-2003	CAISSON SHROUD COVER - BLANK PLAN AND ISOMETRIC VIEW
21	S-2004	CAISSON SHROUD COVER - ISTD PLAN, SECTION, ISOMETRIC VIEW AND SCHEDULE
22	S-3001	CAISSON ELEVATION, SECTIONS, AND ISOMETRIC
23	S-3002	LIFTING ELEVATION
24	S-5001	CAISSON DETAILS
25	S-5002	CAISSON DETAILS
26	S-5003	CAISSON DETAILS
27	S-5004	WOODEN STAIRS DETAILS
28	S-5005	GANGWAY
ELECTRICAL		

* NOTE: SHEET NUMBERS WITH AN ASTERISK (*) ARE NOT INCLUDED IN THIS 100% DESIGN SUBMITTAL.



SITE LOCATION

100% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

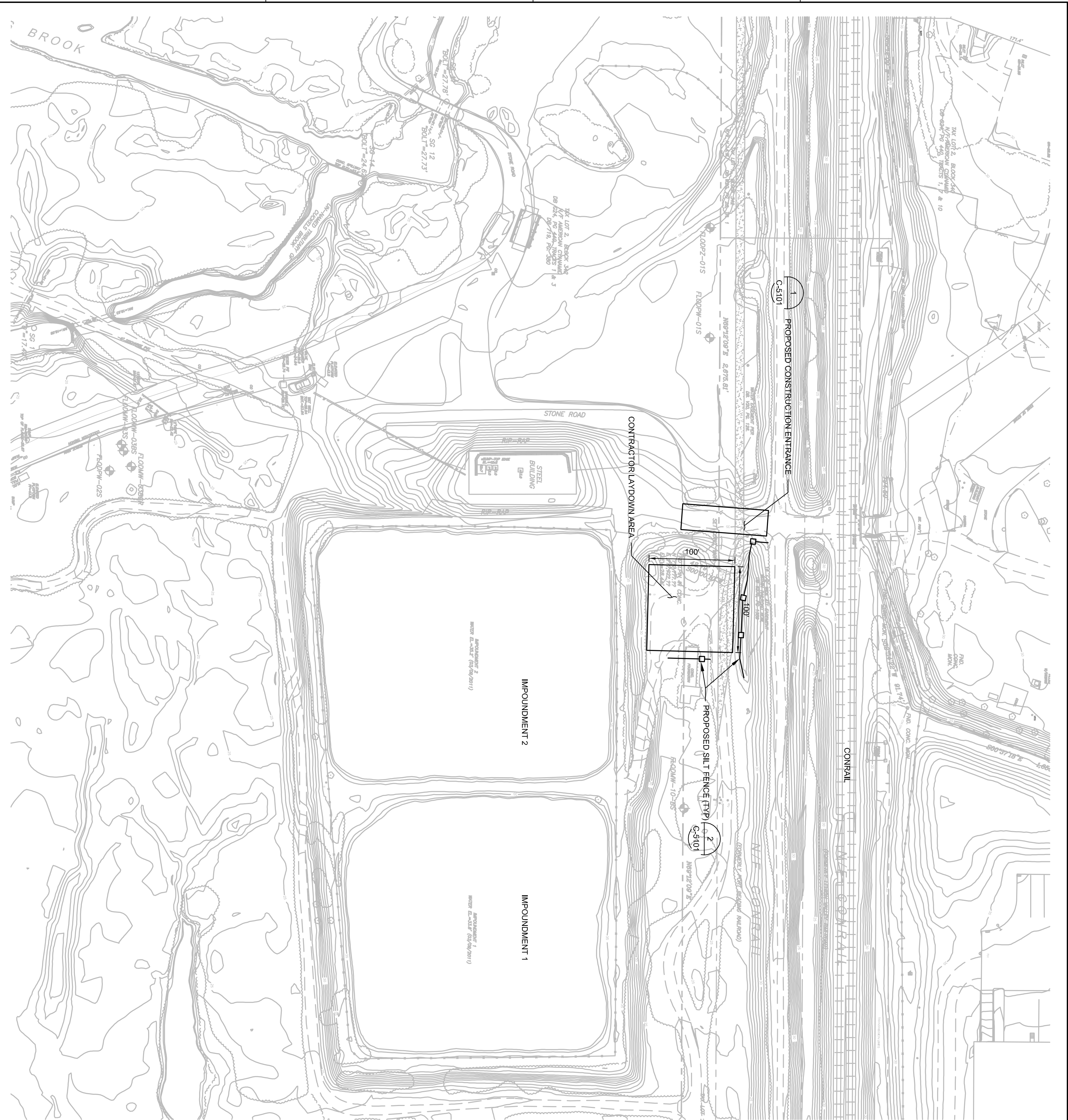
TERRATHERM DRAWING INDEX

TITLE SHEET	DRAWING NUMBER	TITLE
CIVIL		
1	C101	SITE PLAN
2	C102	CAISSON LAYOUT (1 OF 2)
3	C102	CAISSON LAYOUT PROFILE (2 OF 2)
ELECTRICAL		
4	E100	ELECTRICAL LEGEND
5	E101	ONE LINE ELECTRICAL (1 OF 3)
6	E101	ONE LINE ELECTRICAL (2 OF 3)
7	E101	ONE LINE ELECTRICAL (3 OF 3)
8	E104	SWBD GROUNDING / NEUTRAL DETAIL (1 OF 2)
9	E104	GROUNDING DETAIL (2 OF 2)
MECHANICAL		
10	M101	MECHANICAL LAYOUT
PROCESS		
11	P101	PROCESS FLOW DIAGRAM
12	P102	P&ID, CAISSON EQUIPMENT (1 OF 7)
13	P102	P&ID, THERMAL OXIDIZER SYSTEM (2 OF 7)
14	P102	P&ID, SCRUBBER PACKAGE (3 OF 7)
15	P102	P&ID, LIQUID TREATMENT SYSTEM (4 OF 7)
16	P102	P&ID, ALTERNATE BYPASS SYSTEM (5 OF 7)
17	P102	P&ID, UTILITIES (6 OF 7)
18	P102	P&ID, COMPRESSED AIR & DRYER (7 OF 7)
19	P&ID	P&ID LEGEND SHT 1 (1 OF 4)
20	P&ID	P&ID LEGEND SHT 2 (2 OF 4)
21	P&ID	P&ID LEGEND SHT 3 (3 OF 4)
22	P&ID	P&ID LEGEND SHT 4 (4 OF 4)

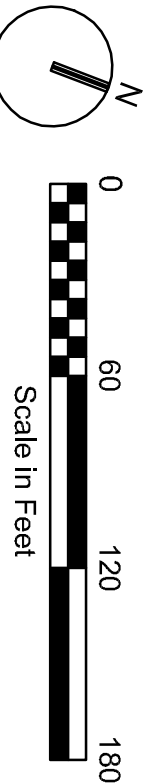


VICINITY MAP

RICHARD P. TRAVER GENERAL SUBMITTAL NOT FOR CONSTRUCTION		R. TRAVER APVD		S. EMERUWA CHK		R. TRAVER DR		R. TRAVER N.J. PROFESSIONAL ENGINEER NO. 26300	
1717 ARCH ST., SUITE 4400 PHILADELPHIA, PA 19103 PH (215) 563-4220 FAX (215) 563-3828 ED 0000072 AA 001992		60% ISSUED FOR PRELIMINARY REVIEW RT		30% ISSUED FOR PRELIMINARY REVIEW RT		DATE		NO.	
IMPOUNDMENTS 1 AND 2 PILOT DEMONSTRATION STUDY WYETH HOLDINGS CORPORATION AMERICAN CYANAMID SUPERFUND SITE 20 POLHEMUS LANE BRIDGEWATER, NJ		B		A		2013/04/05		2013/02/01	
GENERAL COVER SHEET		NO.		DATE		DSGN		NO.	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"		DATE		2013/06/05		PROJ		472109	
		DWG		G-0001		SHEET			



- SEQUENCE OF CONSTRUCTION
1. INSTALLATION OF SILT FENCE TO THE NORTH AND EAST SIDE OF PROPOSED 100' X 100' EQUIPMENT LAYDOWN PAD. WEST AND SOUTH SIDES OF AREA ARE BOUNDED BY THE ELEVATED IMPOUNDMENT #2 BERM AND THE ELEVATED ACCESS RAMP TO THE GWTP;
 2. CLEARING & GRUBBING OF SCRUB VEGETATION
 3. REMOVAL/DISPOSAL OF OLD EQUIPMENT DECONTAMINATION CONTAINMENT SUMP LINER
 4. ROUGH GRADING OF 100' X 100' EQUIPMENT LAYDOWN PAD AREA USING EXISTING STONE BASE
 5. LAYDOWN OF 8 OZ NON-WOVEN POLYPROPYLENE OR POLYESTER GEOTEXTILE
 6. PLACEMENT & COMPACTION OF 12" LIFT OF DGA

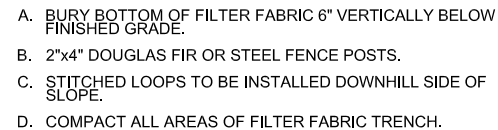


<div>CH2MHILL</div> <div>CIVIL</div> <div>SITE SOIL/SEDIMENT EROSION CONTROL PLAN</div>		1717 ARCH ST. - SUITE 4400 PHILADELPHIA, PA 19103 PH (215) 563-4220 FAX (215) 563-3828 EB 0000072 AA 001992		IMPOUNDMENTS 1 AND 2 PILOT DEMONSTRATION STUDY WYETH HOLDINGS CORPORATION AMERICAN CYANAMID SUPERFUND SITE 20 POLHEMUS LANE BRIDGEWATER, NJ		RICHARD P. TRAVER N.J. PROFESSIONAL ENGINEER NO. 26300	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING		DATE 2013/06/05		PROJ 472109		DWG C-2101	
SHEET		NO.		DATE		BY	
		2013/07/10		REVISED PER REVIEW COMMENTS		RT	
		A		2013/02/01		PRELIMINARY REVIEW	
		NO.		DATE		BY	
		DSGN		DR		CHK	
		R. TRAVER		A. BROWN		R. TRAVER	
		APVD		APVD		R. TRAVER	



- B. REMOVE GRAVEL
ENTRANCE AND REPLACE
WITH NEW BASE COURSE
PRIOR TO COMPLETION
OF ACCESS ROAD.

GRAVEL CONSTRUCTION ENTRANCE



1. ANGLE BOTH ENDS OF FILTER FABRIC FENCE TO ASSURE SOIL IS TRAPPED
2. INTERLOCKED 2"x4" POSTS AND ATTACH
3. FILTER FABRIC MATERIAL
4. NEWLY GRADED OR DISTURBED SLOPE
5. USE STITCHED LOOPS OVER 2"x4" POSTS
6. PROVIDE BASE COURSE BACKFILL IN TRENCH
7. FILTER FABRIC MATERIAL, 36" WIDE ROLLS

SILT FENCE

Attachment 2



For District Use Only

Application Number

APPLICATION FOR SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION

The enclosed soil erosion and sediment control plan and supporting information are submitted for certification pursuant to the Soil Erosion and Sediment Control Act, Chapter 251, P.L. 1975 as amended (NJSA 4:24-39 et. seq.) An application for certification of a soil erosion and sediment control plan shall include the items listed on the reverse side of this form.

Name of Project American Cyanamid Superfund Site Impoundment 1 and 2 Pilot Study		Project Location: Municipality Bridgewater Township	
Project Street Address 20 Polhemus Lane		Block 342	Lot 2
Project Owner(s) Name WYETH Holding Corporation - Russell Downey		Phone # 908-901-6079 Fax # 212-338-1649	
Project Owner(s) Street Address (No P.O. Box Numbers) 100 Route 206 North, Mail Stop 414		City Peapack	State NJ Zip 07977
Total Area of Project (Acres) 4 Acres	Total Area or Land to be Disturbed (Acres) 0.28 Acres	No. Dwelling or other Units NA	Fee \$ 580.00
Plans Prepared by* CH2M HILL Attn: Ric Traver			Phone # 215-640-9105 Fax # 215-640-9305
Street Address 1717 Arch Street Suite 4400		City Philadelphia	State PA Zip 19103

(Engineering related items of the Soil Erosion and Sediment Control Plan MUST be prepared by or under the direction of and be sealed by a Professional Engineer or Architect licensed in the State of New Jersey, in accordance with NJAC 13:27-6.1 et. seq.)

Agent Responsible During Construction CH2M HILL			
Street Address 1717 Arch Street Suite 4400			
City Philadelphia	State PA	Zip 19103	Phone 215-563-4220 Fax # 215-563-3828

The applicant hereby certifies that all soil erosion and sediment control measures are designed in accordance with current **Standards for Soil Erosion and Sediment Control In New Jersey** and will be installed in accordance with those Standards and the plan as approved by the Soil Conservation District and agrees as follows:

1. To notify the District in writing at least 48 hours in advance of any land disturbance activity. Failure to provide such notification may result in additional inspection fees.
2. To notify the District upon completion of the Project (Note: No certificate of occupancy can be granted until a report of compliance is issued by the District.
3. To maintain a copy of the certified plan on the project site during construction.
4. To allow District agents to go upon project lands for inspection.
5. That any conveyance of this project or portion thereof prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners.
6. To comply with all terms and conditions of this application and certified plan including payment of all fees prescribed by the district fee schedule hereby incorporated by reference.

The applicant hereby acknowledges that structural measures contained in the Soil Erosion and Sediment Control Plan are reviewed for adequacy to reduce offsite soil erosion and sedimentation and not for adequacy of structural design. The applicant shall retain full responsibility for any damages which may result from any construction activity notwithstanding district certification of the subject soil erosion and sediment control plan. It is understood that approval of the plan submitted with this application shall be valid only for the duration of the initial project approval granted by the municipality. All municipal renewals of this project will require submission and approval by the district. In no case shall the approval extend beyond three and one half years at which time resubmission and certification will be required. Soil Erosion and Sediment Control Plan certification is limited to the controls specified in the plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency.

1. Applicant Certification* _____ Signature Date _____ Applicant Name (Print)	3. Plan determined complete: _____ Signature of District Official Date _____
2. Receipt of fee, plan and supporting documents is hereby acknowledged: _____ Signature of District Official Date	4. Plan certified, denied or other actions noted above. Special Remarks: _____ Signature of District Official Date

*If other than project owner, written authorization of owner must be attached.

SSCC251 AP10 4/99

ADDENDUM

OWNERSHIP DISCLOSURE AFFIDAVIT

APPLICATION BY CORPORATION OR PARTNERSHIP

All applicants for Soil Erosion and Sediment Control Plan Certification are requested to submit a list of project owners on this form for purposes of determining potential conflicts of interest between the applicant and Soil Conservation District Officials. Attach rider in necessary.

A Corporation must also indicate its Registered Agent and Officers.

A Corporation or Partnership applying to the Soil Conservation District for plan certification, or applying for other approvals shall list the names and addresses of all stockholders or individual partners owning at least 10% of its stock of any class, or at least 10% of the interest in the partnership, as the case may be.

This disclosure requirement is continuing during the Certification period. Any transfer of ownership of more than 10% must be disclosed to the district.

Name and Address of Applicant

If Corporation: Name and Address of Registered Agent and Officers:

WYETH Holdings Corporation	Phone: 908-901-6079
Attn: Russell Downey	Fax: 212-338-1649
100 Route 206, North Mail Stop 414 Peapack, NJ 07977	

Stockholders/Partners with more than 10% ownership in the projects:

1.	<hr/> <hr/> <hr/>
2.	<hr/> <hr/> <hr/>
3.	<hr/> <hr/> <hr/>
4.	<hr/> <hr/> <hr/>

Sworn to and subscribed before me
this Day of 2000

NOTARY PUBLIC OF NEW JERSEY

Print Name of Authorized Signatory

Authorized Signature/Date

Title